

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Brooke L. Small, et al.	§	Group Art Unit: 1764
Serial No.:	10/782,554	§	Examiner: Not yet assigned
Filed:	February 19, 2004	§	Confirmation No.: 5152
For:	OLEFIN OLIGOMERIZATION	§	

**CERTIFICATE OF MAILING**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

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*5-9-05*

(Date of Deposit)

*Scot M. Shield*

Scot M. Shield

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This Information Disclosure Statement, including completed Forms PTO/SB/08A and PTO/SB/08B comprise a list of pertinent art of which the Applicants are aware. Copies of the foreign patents and publications listed on Forms PTO/SB/08A and PTO/SB/08B are enclosed herewith. In accordance with 37 C.F.R. 1.98, no paper copies of the U.S. Patents and Patent Applications are enclosed.

The submission of this Information Disclosure Statement and Forms PTO/SB/08A and PTO/SB/08B is not an admission that the art cited is "prior" with respect to the present invention,

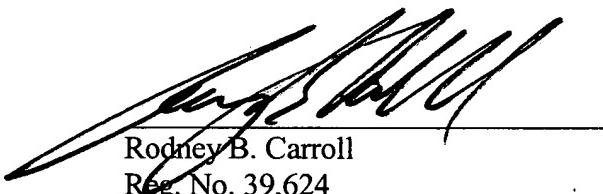
nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and that situation warrant such an action. It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

Applicants believe that no fee is due for the filing of this Information Disclosure Statement. Nonetheless, in the event that a fee is due, please charge it to Deposit Account 50-1515 of Conley Rose, P.C.

Respectfully submitted,  
CONLEY ROSE, P.C.

Date:

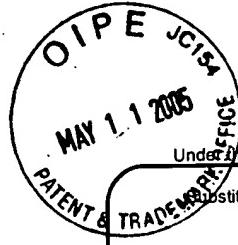
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ATTORNEY FOR APPLICANTS



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Institute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

4

### Complete if Known

Application Number	10/782,554
Filing Date	February 19, 2004
First Named Inventor	Brooke L. Small
Art Unit	1764
Examiner Name	N/A

Attorney Docket Number 210507US (4081-03900)

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> ( <i>if known</i> )			
AA	US- 4,971,986		11/20/1990	Stanek, et al.	
AB	US- 5,438,027		08/01/1995	Reagen, et al.	
AC	US- 5,451,645		09/19/1995	Reagen, et al.	
AD	US- 5,470,926		11/28/1995	Reagen, et al.	
AE	US- 5,523,507		06/04/1996	Reagen, et al.	
AF	US- 5,543,375		08/06/1996	Lashier, et al.	
AG	US- 5,563,312		10/08/1996	Knudsen, et al.	
AH	US- 5,689,028		11/18/1997	Lashier, et al.	
AI	US- 5,763,723		06/09/1998	Reagen, et al.	
AJ	US- 5,786,431		07/28/1998	Reagen, et al.	
AK	US- 5,814,575		09/29/1998	Reagen, et al.	
AL	US- 5,856,257		01/05/1999	Freeman, et al.	
AM	US- 5,859,303		01/12/1999	Lashier	
AN	US- 5,919,996		07/06/1999	Freeman, et al.	
AO	US- 5,955,555		09/21/1999	Bennett	
AP	US- 5,986,153		11/16/1999	Kallenbach, et al.	
AQ	US- 6,103,946		08/15/2000	Brookhart III, et al.	
AR	US- 6,214,761		04/10/2001	Bennett	
AS	US- 6,380,451		04/30/2002	Kreischer, et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> ( <i>if known</i> )				

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	10/782,554
		Filing Date	February 19, 2004
		First Named Inventor	Brooke L. Small
		Art Unit	1764
		Examiner Name	N/A
		Attorney Docket Number	210507US (4081-03900)
Sheet	2	of	4

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	CA	EP 1229020 A1	08/07/2002	EPO		
	CB	WO 01/10875 A1	02/15/2001	WIPO		
	CC	WO 01/58874 A1	08/16/2001	WIPO		
	CD	WO 02/00339 A2	01/03/2002	WIPO		
	CE	WO 02/28805 A2	04/11/2002	WIPO		
	CF	WO 03/011876 A1	02/13/2003	WIPO		

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				<b>Examiner Name</b>	N/A
Sheet	4	of	4	Attorney Docket Number	210507US (4081-03900)

<b>NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	DA	Britovek, George J.P., et al., "Oligomerisation of Ethylene by Bis(imino)pyridyliron and -cobalt Complexes," Chem. Eur. J, Vol. 6, No. 12, 2000, pgs. 2221-2231.	
	DB	Kumar, R.N., et al., "Mononuclear and Binuclear Complexes of Fe(II) and Cu(II) with 2,6-Diacetyl Pyridine Monoxime and Phenylene Diamine," Asian Journal of Chemistry, Vol. 11, No. 3, 1999, pgs. 964-969.	
	DC	Nelson, S. Martin, et al., "Metal-ion Controlled Reactions of 2,6 Diacetylpyridine with 1,2-Diaminoethane and 2,6-Diformylpyridine with o-Phenylenediamine and the Crystal and Molecular Structure of a Pentagonal Pyramidal Cadmium(II) Complex containing Unidentate o-Phenylenediamine," Journal of the Chemical Society, Dalton Transactions, Inorganic Chemistry, Vol. 2, 1982, pgs. 407-415.	
	DD	Small, Brooke L., et al., "Highly Active Iron and Cobalt Catalysts for the Polymerization of Ethylene," Journal of the American Chemical Society, Vol. 120, No. 16, 1998, pgs. 4049-4050.	
	DE	Small, Brooke L., et al., "Iron-Based Catalysts with Exceptionally High Activities and Selectivities for Oligomerization of Ethylene to Linear $\alpha$ -Olefins," Journal of the American Chemical Society, Vol. 120, No. 28, 1998, pgs. 7143-7144.	
	DF	International Search Report and Written Opinion of the International Searching Authority, PCT/US2004/004472, 07/16/2004, 7 pgs.	
	DG	Application No. 11/009,916, "Methods for Producing a Hexadentate Bimetallic Complex," Small, Brooke L., Filing Date: 12/10/04, Specification (pgs. 1-92).	

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